

# Filter, Series 653

## G653ABBK6JA000N

### General series information Series 653

- The AVENTICS Series 653 is an easy-to-install line of pneumatic filters, regulators and lubricators (FRLs) that offer the industry's highest flow rates and widest temperature ratings. Available in 1/2-inch, 3/4-inch, and 1-inch port sizes, these FRLs are ideal for automotive and tire, packaging, food and beverage, and process applications requiring highly reliable operation and robust, modern-looking equipment. Available with integrated redundant safe exhaust valve and IIoT enabled air flow sensor.



### Technical data

|                          |                                       |
|--------------------------|---------------------------------------|
| Industry                 | Industrial                            |
| Parts                    | Filter                                |
| Reservoir                | Metal reservoir without window        |
| Port                     | G 1                                   |
| Filter porosity          | 5 µm                                  |
| Nominal flow Qn          | 4250 l/min                            |
| Condensate drain         | semi-automatic, open without pressure |
| Working pressure min.    | 0 bar                                 |
| Working pressure max     | 20 bar                                |
| Min. ambient temperature | -20 °C                                |
| Max. ambient temperature | 50 °C                                 |
| Medium                   | Compressed air<br>Neutral gases       |

|                                                                 |                                                                     |
|-----------------------------------------------------------------|---------------------------------------------------------------------|
| Medium temperature note                                         | Extended temperature range min./max. (optional)<br>-40 °C ... 80 °C |
| Certificates                                                    | ATEX optional                                                       |
| Max. achievable compressed air class acc. to<br>ISO 8573-1:2010 | 1 : - : 2                                                           |
| Weight                                                          | 1.14 kg                                                             |
| Type                                                            | Can be assembled into blocks                                        |

## Material

|                           |                          |
|---------------------------|--------------------------|
| Housing material          | Aluminum                 |
| Seal material             | Nitrile butadiene rubber |
| Material filter insert    | Sintered polyethylene    |
| Material condensate drain | Plastic                  |
| Part No.                  | G653ABBK6JA000N          |

## Technical information

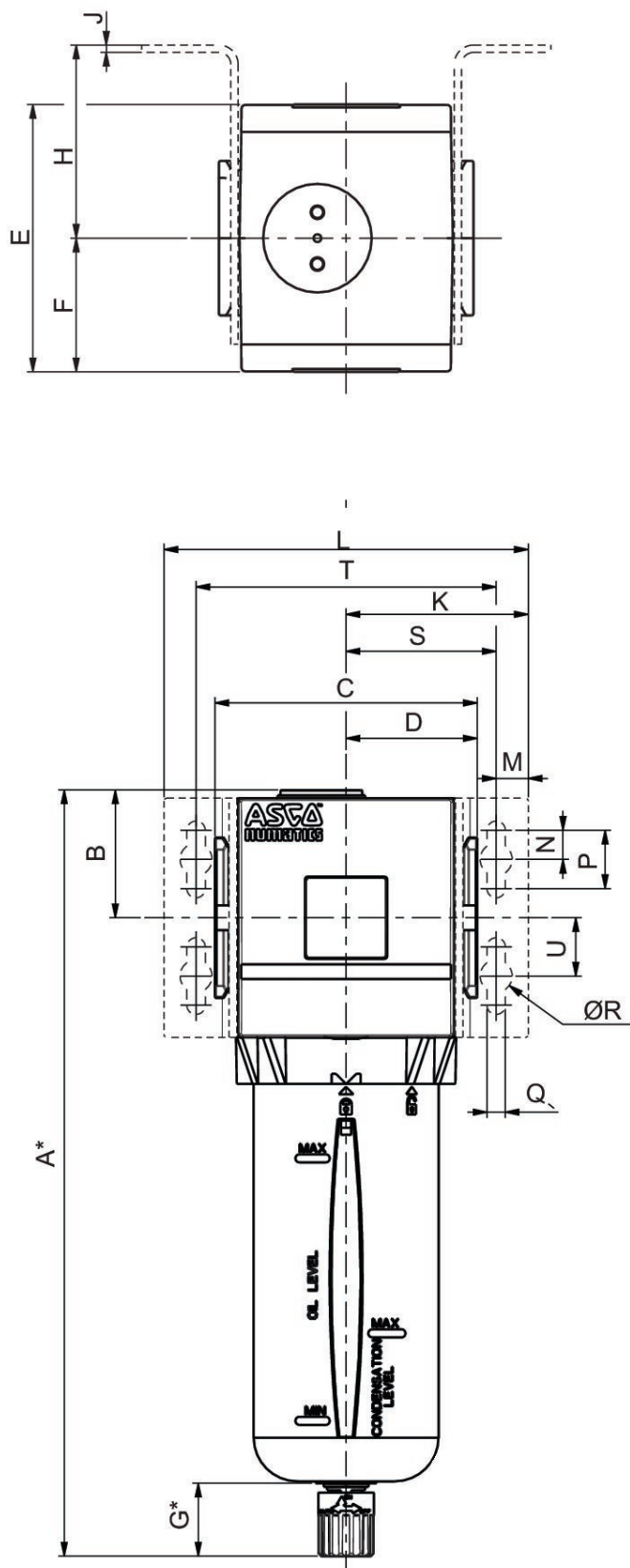
Other filter porosities on request.

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

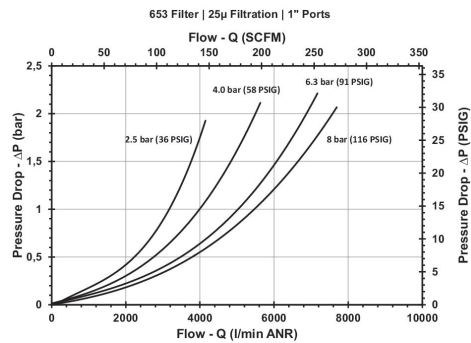
## Dimensions



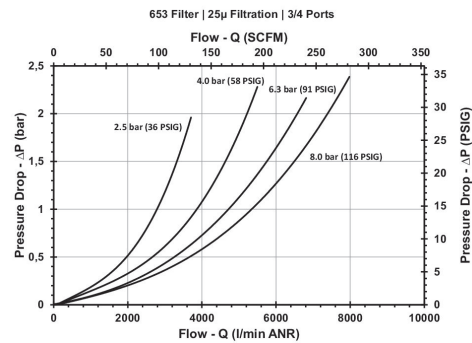
\*Variable dimension based on the type of drain specified, if an automatic drain is specified, add another [[5] mm] to the "G" dimension, which also adds 5 mm to the "A" dimension.

| Series | 653   |
|--------|-------|
| A      | 260,7 |
| B      | 43,8  |
| C      | 90    |
| D      | 45    |
| E      | 93,2  |
| F      | 46,6  |
| G      | 25    |
| H      | 62    |
| J      | 3     |
| K      | 62,5  |
| L      | 125   |
| M      | 11    |
| N      | 10    |
| P      | 20    |
| Q      | 6,3   |
| R      | 11    |
| S      | 51,5  |
| T      | 103   |
| U      | 20    |

Flow diagram  
G 1



Flow diagram  
G 3/4



## Accessories overview

